LIQUID CRYSTAL DISPLAY DEVICE Oct. 30, 2003 Takashi Sasabayashi Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68597 Sheet 1 of 8 (312) 360 0080

FIG.1

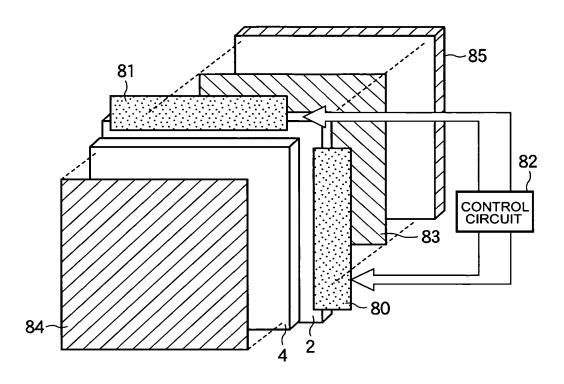
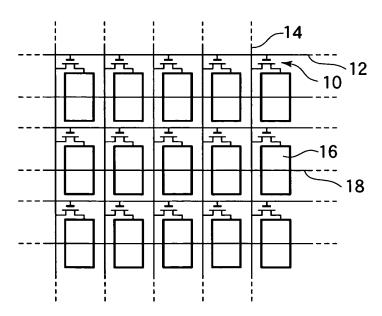


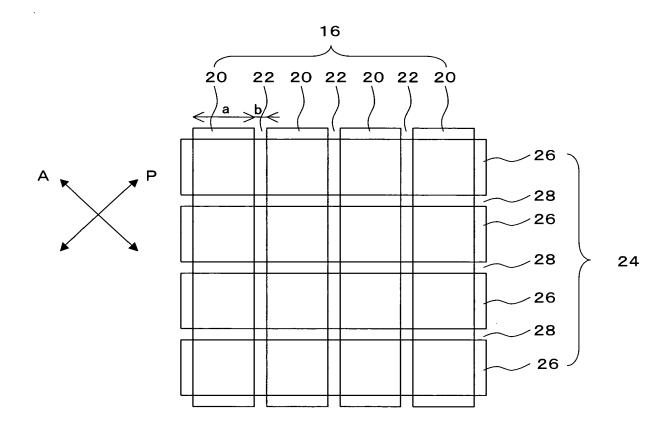
FIG.2



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FIG.3



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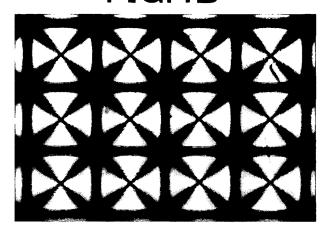
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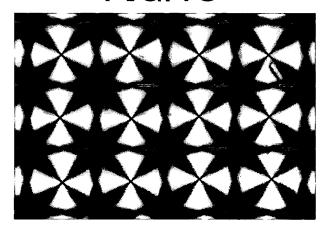
2.5 V

FIG.4B



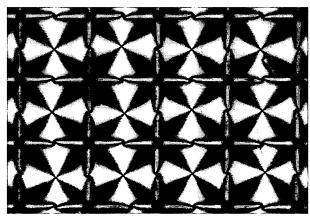
3.0 V

FIG.4C



4.0 V

FIG.4D



5.0 V

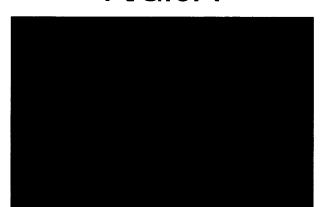


 $50 \, \mu \, \mathrm{m}$

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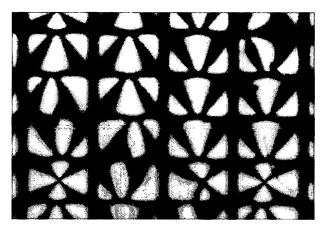
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FIG.5A



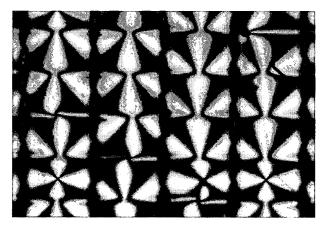
2.5 V

FIG.5B



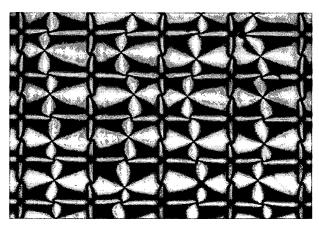
3.0 V

FIG.5C



4.0 V

FIG.5D



5.0 V



FIG.6

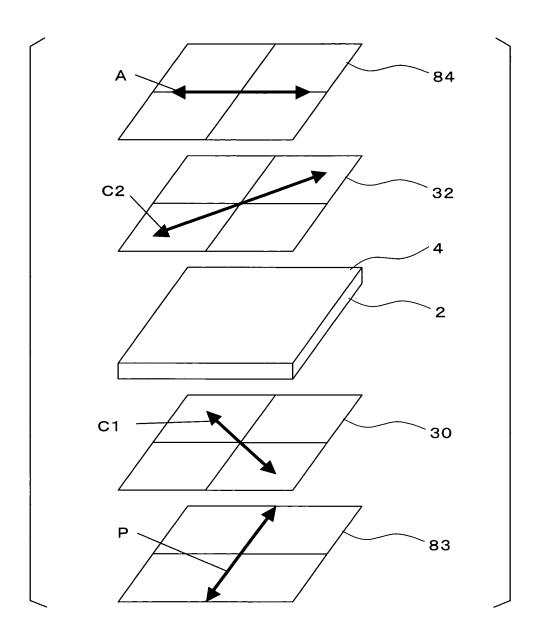


FIG.7

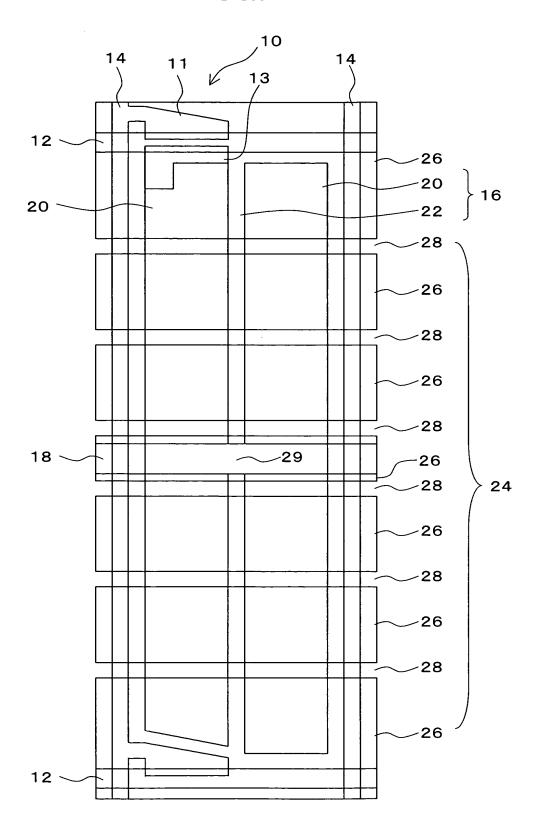


FIG.8A

FIG.8B

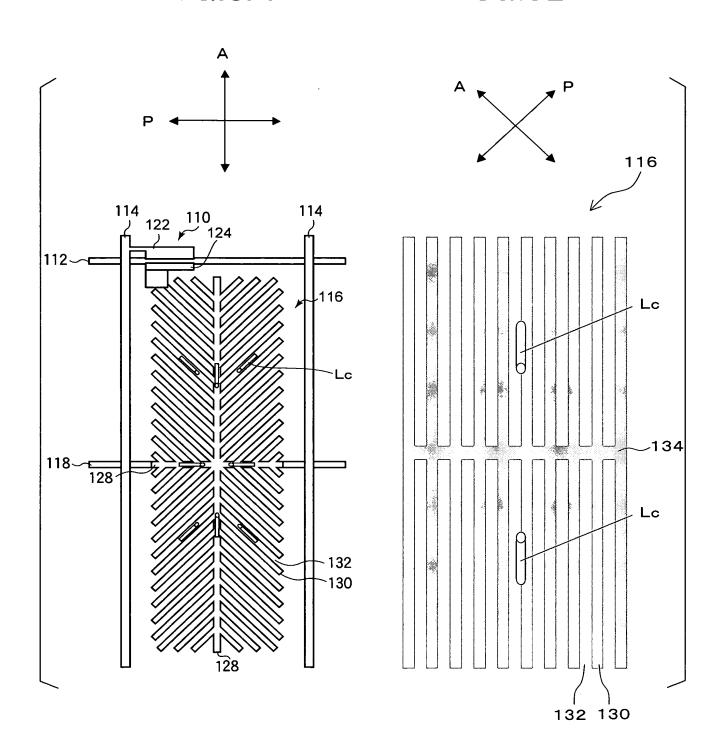
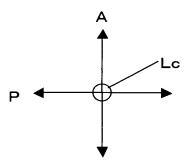
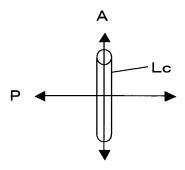


FIG.9A







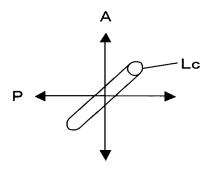


FIG.9C

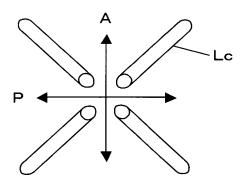


FIG.9D